1.1 Introduction to Machine Learning

19 Ekim 2022 Çarşamba

09:51

Regression/Estimation Predicting continuous values

Classification

Predicting the item class/category of a case

Clustering

Finding the structure of data; summarization

Associations

Associating frequent co-occuring itemse/event

- **Anomaly Detection**
- Sequence Mining
- Dimension Reduction
- **Recommendation Systems**

Libaries that we used for ML

- Numpy
- SciPy
- Matplotlib
- Pandas
- Scikit Learn

Words

- Benign iyi huylu
- Malignant kötü huylu
- Accurate kesin

Supervised vs unsupervised learning

Supervised Learning

- Classification: 🛊 Classifies labeled data
- · Regression: Predicts trends using previous labeled data
- · Has more evaluation methods than unsupervised learning
- · Controlled environment

Unsupervised Learning

- · Clustering: Finds patterns and groupings from unlabeled data
- · Has fewer evaluation methods than supervised learning
- · Less controlled environment

Supervised vs Unsupervised Learning

- Supervised Learnening
- Regression
- Classification
- Unsupervised Learning
- Dimension reduction
- Density Estimation
- Market Basket Analysis
- Clustering